

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

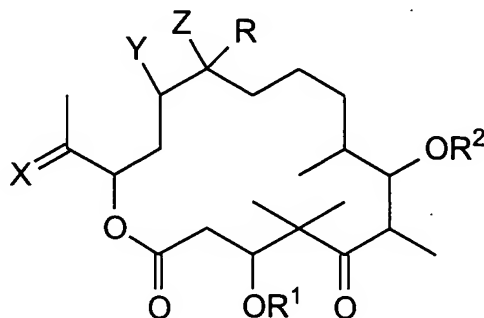
1-16 (Cancelled)

17. (Previously submitted) Process for the preparation of epothilone A and/or 12,13-bisepothilone A, wherein epothilone C is epoxidised, especially with dimethyldioxirane or with a peracid.

18. (Previously submitted) Process for the preparation of epothilone B and/or 12,13-bisepothilone B, wherein epothilone D is epoxidised, especially with dimethyldioxirane or with a peracid.

19-20 (cancelled)

21. (New) A compound of the formula:



wherein

R is hydrogen or C₁₋₄alkyl;

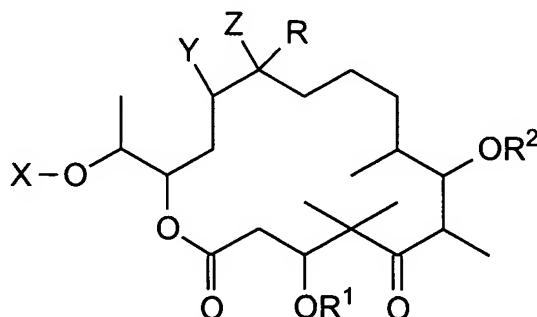
X is oxygen, NOR³, N-NR⁴R⁵, or N-NHCONR⁴R⁵;

each of R¹, R², R³, R⁴, and R⁵, independently from the others, is hydrogen, C₁₋₆alkyl, C₁₋₆acyl, benzoyl, C₁₋₄trialkylsilyl, benzyl, phenyl, or benzyl or phenyl substituted by C₁₋₆alkoxy, C₁₋₆alkyl, hydroxy, or halogen, or R⁴ and R⁵ together

are C₂₋₆alkylene group, and the alkyl, alkylene, and acyl groups contained in the radicals are straight-chain or branched radicals; and each of Y and Z, independently from the other, is hydrogen, halogen, pseudo-halogen, OH, O-(C₁₋₆)alkyl, O-(C₁₋₆)acyl or O-benzoyl, or Y and Z together are oxygen or a carbon-carbon bond.

22. (New) The compound according to claim 21 in which each of R, R¹, and R² is hydrogen, X is oxygen, and Y and Z together are oxygen.

23. (New) A compound of the formula:



wherein

R is hydrogen or C₁₋₄alkyl;

X is hydrogen, C₁₋₁₈alkyl, C₁₋₁₈acyl, benzyl, benzoyl, or cinnamoyl;

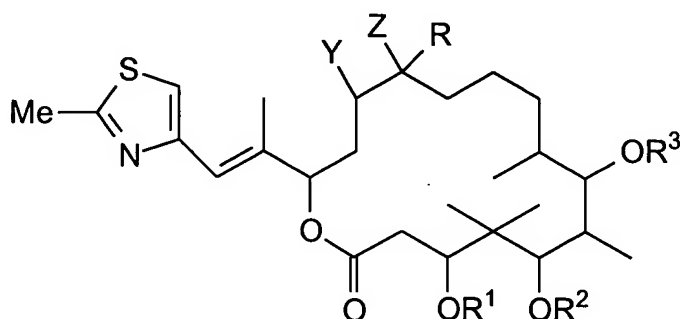
each of R¹ and R², independently from the other, is hydrogen, C₁₋₆alkyl, C₁₋₆acyl, benzoyl, C₁₋₄trialkylsilyl, benzyl, phenyl, or benzyl or phenyl substituted by C₁₋₆alkoxy, C₁₋₆alkyl, hydroxy, or halogen, and the alkyl and acyl groups contained in the radicals are straight-chain or branched radicals; and each of Y and Z, independently from the other, is hydrogen, halogen, pseudo-halogen, OH, O-(C₁₋₆)alkyl, O-(C₁₋₆)acyl or O-benzoyl, or Y and Z together are

oxygen or a carbon-carbon bond.

24. (New) A pharmaceutical composition comprising a compound according to any of claims 21, 22, and 23 in combination with a pharmaceutically acceptable carrier.

25. (New) A pharmaceutical composition comprising a compound of the formula

(i)

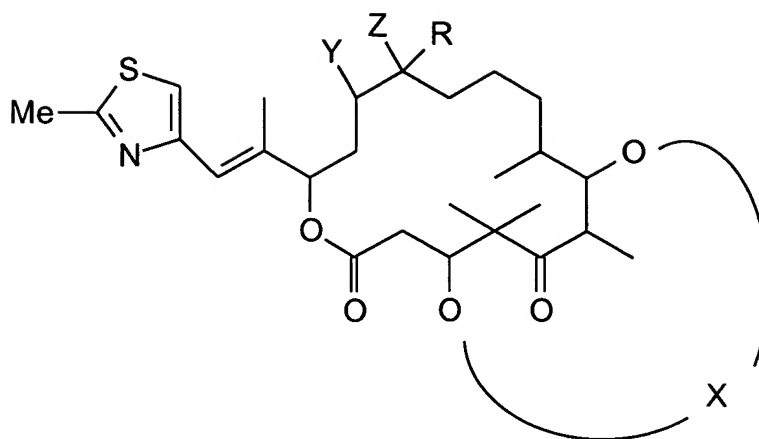


wherein

R is hydrogen or C₁₋₄alkyl;

each of R¹, R², and R³, independently from the others, is hydrogen, C₁₋₆alkyl, C₁₋₆acyl, benzoyl, C₁₋₄trialkylsilyl, benzyl, phenyl, or benzyl or phenyl substituted by C₁₋₆alkoxy, C₁₋₆alkyl, hydroxy, or halogen, and the alkyl and acyl groups contained in the radicals are straight-chain or branched radicals; and each of Y and Z, independently from the other, is hydrogen, halogen, pseudo-halogen, OH, O-(C₁₋₆)alkyl, O-(C₁₋₆)acyl or O-benzoyl, or Y and Z together are oxygen or a carbon-carbon bond;

(ii)



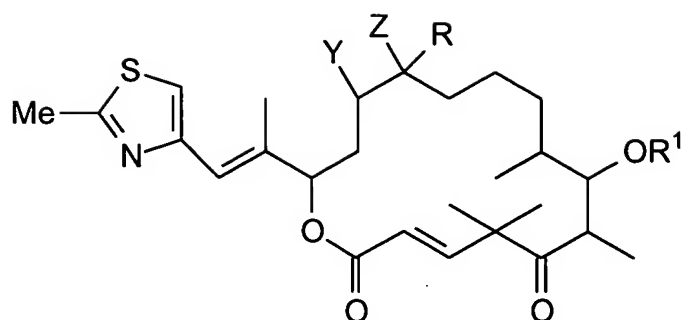
wherein

R is hydrogen or C₁₋₄alkyl;

X is -C(O)-, -C(S)-, -S(O)-, -CR¹R²-, or -SiR²- in which each of R¹ and R², independently from the other, is hydrogen, C₁₋₆alkyl, C₁₋₆acyl, benzoyl, C₁₋₄trialkylsilyl, benzyl, phenyl, or benzyl or phenyl substituted by C₁₋₆alkoxy, C₁₋₆alkyl, hydroxy, or halogen, or R¹ and R² taken together are C₂₋₆alkylene, and the alkyl, alkylene, and acyl groups contained in the radicals are straight-chain or branched radicals; and

each of Y and Z, independently from the other, is hydrogen, halogen, pseudo-halogen, OH, O-(C₁₋₆)alkyl, O-(C₁₋₆)acyl or O-benzoyl, or Y and Z together are oxygen or a carbon-carbon bond;

(iii)



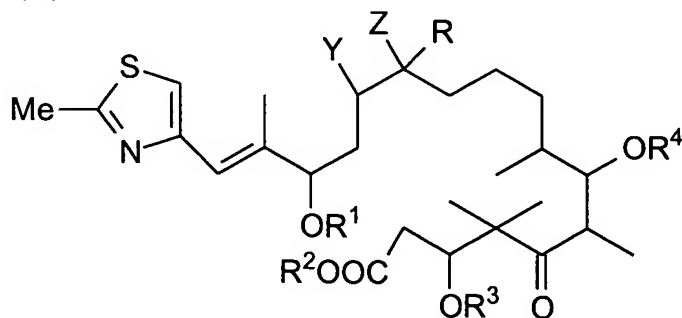
wherein

R is hydrogen or C₁₋₄alkyl;

R¹ is hydrogen, C₁₋₆alkyl, C₁₋₆acyl, benzoyl, C₁₋₄trialkylsilyl, benzyl, phenyl, or benzyl or phenyl substituted by C₁₋₆alkoxy, C₁₋₆alkyl, hydroxy, or halogen, and the alkyl and acyl groups contained in the radicals are straight-chain or branched radicals; and

each of Y and Z, independently from the other, is hydrogen, halogen, pseudo-halogen, OH, O-(C₁₋₆)alkyl, O-(C₁₋₆)acyl or O-benzoyl, or Y and Z together are oxygen or a carbon-carbon bond; or

(iv)



wherein

R is hydrogen or C₁₋₄alkyl;

each of R¹, R², R³, and R⁴, independently from the others, is hydrogen, C₁₋₆alkyl, C₁₋₆acyl, benzoyl, C₁₋₄trialkylsilyl, benzyl, phenyl, or benzyl or phenyl substituted by C₁₋₆alkoxy, C₁₋₆alkyl, hydroxy, or halogen, and the alkyl and acyl groups contained in the radicals are straight-chain or branched radicals, and each of Y and Z, independently from the other, is hydrogen, halogen, pseudo-halogen, OH, O-(C₁₋₆)alkyl, O-(C₁₋₆)acyl or O-benzoyl, or Y and Z together are oxygen or a carbon-carbon bond;

in combination with a pharmaceutically acceptable carrier.

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